	Application Number	10/588,612	<i>O</i>	
nder the Paperwork Reduction Act of 1995, no persons are requ				
•	U.S. Patent and Tradema	ark Office: U.S. DEPA	RTMENT OF CO	MMERCE
sign inside this box		ved for use through 10/	31/2002. OMB (0651-0031

TRANSMITT	AL	Filing Date	February 4, 2005					
FORM	· 	First Named Inventor	Yasuo SUDA					
(to be used for all correspondence after	rinitial filina) ·	Group Art Unit	Not Yet Assigned					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	g,	Examiner Name	Not Yet Assigned					
Total Number of Pages in This Submiss	sion 6	Attorney Docket Number	er 247322003700					
ENCLOSURES (check all that apply)								
Fee Transmittal Form - 1 pg IN DUPL	Assignment I (for an Applica		After Allowance Communication to Group					
Fee Attached	Drawing(s)		Appeal Communication to Board of Appeals and Interferences					
Amendment/Reply	Licensing-rel	ated Papers	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)					
After Final	Petition		Proprietary Information					
Affidavits/declaration(s)	Petition to Co	onvert to a Provisional	Status Letter					
Extension of Time Request		rney, Revocation rrespondence Address	X Other Enclosure(s) (please identify below)					
Express Abandonment Request	Terminal Dis	claimer	1. PTO/SB/08a/b - 2 pgs (citing 20 refs; copies of 19 refs					
X Information Disclosure Stmt - 3 pgs	Request for	Refund	attached)					
Certified Copy of Priority Document(s)	CD, Number	of CD(s)	·					
Response to Missing Parts/ Incomplete Application	Remarks	· · · · · · · · · · · · · · · · · ·						
Response to Missing Parts under 37 CFR 1.52 or 1.53								
SIGNA	TURE OF APPLICA	ANT, ATTORNEY, OR A	GENT					
Firm or Individual Name MICHAEL R. WAR Reg. No. 38,651	or MICHAEL R. WARD COSTONIER NO. 20072							
Signature Willelelle								
Date March/5, 2007								
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below. Dated: March 9, 2007 Signature: (Lijka Olsen)								

I hereby certify that this paper is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 dexandria, VA 22313-1450.

Patent Docket No. 247322003700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: Not Yet Assigned Yasuo SUDA et al.

Yasuo SUDA et al.

Serial No.: 10/588,612

Filing Date: February 4, 2005

For: LINKER COMPOUND, LIGAND CONJUGATE, AND PRODUCTION

METHODS THEREOF

Group Art Unit: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MS: AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

This Supplemental Information Disclosure Statement is submitted:

With the application; accordingly, no fee or separate requirements are required.

Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.

\boxtimes	Withi	Within three months of the application filing date or before mailing of a first Office					
	Action on the merits; accordingly, no fee or separate requirements are required.						
	Howe	ever, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.					
	After	receipt of a first Office Action on the merits but before mailing of a final Office Action					
.`	or No	tice of Allowance.					
		A fee is required. A check in the amount of is enclosed.					
		A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to					
		this submission in duplicate.					
		A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is					
•		believed to be due.					
	After	mailing of a final Office Action or Notice of Allowance, but before payment of the					
	issue	fee.					
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the					
		amount of is enclosed.					
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal					
		form (PTO/SB/17 is attached to this submission in duplicate.)					
		Provident of the control of the Provident initiality and automic of the Provident					

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other

Application No. 10/588,612

Supplemental Information Disclosure

fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing <u>247322003700</u>.

3

Dated: March 5, 2007

Respectfully submitted,

By Michael Rlea Michael R. Ward

Registration No.: 38,651 MORRISON & FOERSTER LLP 12531 High Bluff Drive, Suite 100 San Diego, California 92130-2040 (415) 268-6237



Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

1 of 2

Complete if Known					
Application Number	10/588,612				
Filing Date	February 4, 2005				
First Named Inventor	Yasuo SUDA				
Art Unit	Not Yet Assigned				
Examiner Name	Not Yet Assigned				
Attorney Docket Number	247322003700				

<u> </u>	U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
Initials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
	1.	US-2006/0030699-A1	02-09-2006	Suda				

	FOREIGN PATENT DOCUMENTS							
		Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,			
Examiner Initials*	Cite No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶		
	2.	JP-2002080488	03-19-2002	University of Osaka		Г		
	3.	JP-2004157108	06-03-2004	Japan Science and Technology & Univ Kagoshima				

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.usplo.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¹ For Japanese patent.documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	4.	Plant, A.L. et al. (1995). "Phospholipid/Alkanethiol Bilayers for Cell-Surface Receptor Studies by Surface Plasmon Resonance," Analytical Biochemistry, 226:342-348.	
	5.	Liedberg, B. et al. (1995). "Biosensing with surface plasmon resonance-how it all started," Biosensors & Bioelectronics 10:i-ix.	
	6.	Horan, N. et al. (1999). "Nonstatistical binding of a protein to clustered carbohydrates," PNAS, 96(21):11782-11786.	
	7.	Arano, Akio et al. (2001). "Synthesis of a conjugate having heparin partial structure and a distal disulfide group and its application to chip technology," Chemical Society of Japan, Tentative Lecture Proceedings II in the 79th Spring Meeting, March 15, 2001, 3 pages (4G305).	
	8.	Hayashi et al. (2001). "Assembly of saccharide by multi-functional linker and application to surface plasmon resonance analysis and affinity chromatography," Tentative Lecture Proceedings, Chemical Society of Japan, volume 83, 3 pages.	
	9.	Fazio, F. et al. (2002). "Synthesis of Sugar Arrays in Microtiter Plate," J. Am. Chem. Soc., 124:14397-14402.	
	10.	Fukui, S. et al. (2002). "Oligosaccharide microarrays for high-throughput detection and specificity assignments of carbohydrate-protein interactions," Nature Biotechnology, 20:1011-1017.	
	11.	Houseman, B. et al. (2002). "Carbohydrate Arrays for the Evaluation of Protein Binding and Enzymatic Modification," Chemistry & Biology, 9:443–454.	
	12.	Wang, D. et al. (2002). "Carbohydrate microarrays for the recognition of cross-reactive molecular markers of microbes and host cells," Nature Biotechnology, 20:275-281.	
	13.	Hayashi et al. (2003). "Synthesis, designed assembly and biotinylation of sulfated oligosaccharide and its application to surface plasmon resonance," Tentative Lecture Proceedings, Chemical Society of Japan, 3 pages.	
	14.	Arano, A. et al. "Analysis of Binding Interaction Between Glycosaminoglycans and Proteins	

Examiner	Date	
Signature	Considered	

Substitute for form 1449/PTO				Complete if Known		
				Application Number	10/588,612	
l ir	NFORMATION	ı Di	SCLOSURE	Filing Date	February 4, 2005	
	TATEMENT E			First Named Inventor	Yasuo SUDA	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i></i>		Art Unit	Not Yet Assigned	
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Attorney Docket Number	247322003700	

	Using Surface Plasmon Resonance," Annual Meeting Syllabus of the Japanese Society of Carbohydrate Research, volume 22, 4 pages.	
15.	Park, S. et al. (2004). "Carbohydrate Chips for Studying High-Throughput Carbohydrate-Protein Interactions," J. Am. Chem. Soc., 126:4812-4819.	
16.	Kato, M. et al. (2004). "Using Model Substrates To Study the Dependence of Focal Adhesion Formation on the Affinity of Integrin-Ligand Complexes," Biochemistry, 43:2699-2707.	
17.	Suda, Y. (2004). "Sugar Chip: Novel Bio Device for Finding Out Biofunction of Oligosaccharides," Polymer Preprints, Japan, volume 52, 11 pages.	
18.	Ratner, D.M. et al. (2004). "Probing Protein—Carbohydrate Interactions with Microarrays of Synthetic Oligosaccharides," ChemBioChem, 5:379-383.	
19.	Feizi, T. et al. (2004). "Oligosaccharide microarrays to decipher the glycol code," Nature, 5:582-588.	
20.	Karamanska, R. et al. (2005). "Thioctic acid amides: convenient tethers for achieving low nonspecific protein binding to carbohydrates presented on gold surfaces," Chem. Commun., pp. 3334-3336.	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	 	Date	
Signature		Considered	

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.